

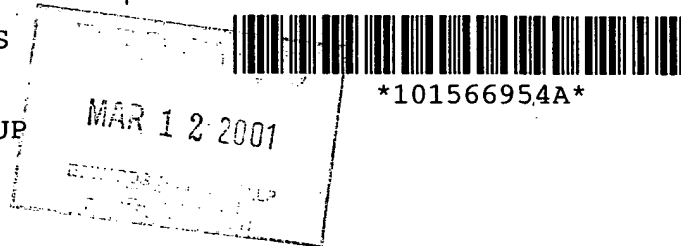
DGC  
55437  
(904)



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MARCH 07, 2001

PTAS  
DIKE, BRONSTEIN, ROBERTS, ET AL  
DAVID G. CONLIN  
INTELLECTUAL PROPERTY PRACTICE GROUP  
130 WATER STREET  
BOSTON, MA. 02109



**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/15/2000

REEL/FRAME: 011367/0165  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
SUGIMOTO, OSAMU

DOC DATE: 11/22/2000

ASSIGNOR:  
IMAI, HAJIME

DOC DATE: 11/22/2000

ASSIGNEE:  
SHARP KABUSHIKI KAISHA  
22-22 NAGAIKE-CO, ABENE-OKU  
OSAKA, JAPAN

SERIAL NUMBER: 09737541  
PATENT NUMBER:

FILING DATE: 12/15/2000  
ISSUE DATE:

PEARLENE FOSTER, PARALEGAL.  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

12-29-2000

cket No.: 55457(904)

FORM PTO-1595 (Modified)  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)  
Copyright 1996-97 LegalStar  
P08A/REV02

REC



101566954

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

OSAMU SUGIMOTO  
HAJIME IMAI

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: November 22, 2000

## 2. Name and address of receiving party(ies):

Name: SHARP KABUSHIKI KAISHAAddress: 22-22 Nagaike-cho, Abeno-kuCity: Osaka

State/Prov.: \_\_\_\_\_

Country: Japan

ZIP: \_\_\_\_\_

Additional name(s) &amp; address(es)

☐ Yes ☒ No

## 4. Application number(s) or registration numbers(s):

9/737541

If this document is being filed together with a new application, the execution date of the application is: November 22, 2000

Patent Application No.

Filing date

B. Patent No.(s)

12/20/2000 EFLORES 00000171 09737541

03 FC:581

40.00 DP

Additional numbers

☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David G. ConlinRegistration No. 27026Address: Dike, Bronstein, Roberts & Cushman,Intellectual Property Practice GroupEDWARDS & ANGELL, LLP, 130 Water StreetCity: BostonState/Prov.: MACountry: USAZIP: 02109

## 6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

## 8. Deposit account number:

04-1105

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David G. Conlin (Reg. No. 27026)

Name of Person Signing

Signature

December 15, 2000

Date

2

Total number of pages including cover sheet, attachments, and

# ASSIGNMENT

We Osamu SUGIMOTO  
Hajime IMAI  
 and  
 for good and valuable consideration from SHARP KABUSHIKI KAISHA  
, a Japanese corporation,  
 having its principal place of business in Osaka, Japan  
 hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby  
 sell, assign and transfer unto the Assignee, its successors and assigns, the entire  
 right, title and interest in, to and under an application for Letters Patent of the  
 United States Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ \* signed by us  
 for Improvements in LIQUID CRYSTAL DISPLAY AND MANUFACTURING METHOD THEREOF

including all priority rights ensuing therefrom, and the inventions and any of them  
 therein set forth and described, and any and all Letters Patent of the United States  
 and of countries foreign thereto which may be granted thereon or therefor, together  
 with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,  
 its successors or assigns, to execute and deliver without further compensation any  
 power of attorney, assignment, application, whether original, divisional, continuation  
 or reissue, or other papers which may be necessary or desirable fully to secure to the  
 Assignee, its successors and assigns, the inventions and any of them described in said  
 application and all patent rights therein, in the United States and in any country  
 foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &  
 Cushman the power to insert on this Assignment any further identification  
 which may be necessary or desirable in order to comply with the rules of the  
 U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I, Osamu SUGIMOTO, hereunto set my  
 hand and seal this 22nd day of November, 2000, I, Hajime IMAI  
 \_\_\_\_\_, hereunto set my hand and seal this 22nd day of November  
 2000, and I, \_\_\_\_\_, hereunto set my hand and seal  
 this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Osamu Sugimoto  
Hajime Imai

Commonwealth [State] of \_\_\_\_\_ ss.  
 County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
 \_\_\_\_\_, who is to me personally known, and acknowledged  
 the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
 Notary Public

Commonwealth [State] of \_\_\_\_\_ ss.  
 County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
 \_\_\_\_\_, who is to me personally known, and acknowledged  
 the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
 Notary Public

\*Where the application is assigned before it is filed,  
 and hence has no Serial No., this shall be left blank.

Attorney's Docket No. \_\_\_\_\_

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first and joint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

LIQUID CRYSTAL DISPLAY AND MANUFACTURING METHOD THEREOF

which is described and claimed in:

- ☒ the specification attached hereto.
- ☐ the specification in U.S. Application Serial Number \_\_\_\_\_, filed on \_\_\_\_\_
- ☐ the specification in PCT international application Number \_\_\_\_\_,  
filed on \_\_\_\_\_; and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

[illegible]

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applications or PCT International Applications Designating the U.S.-Benefit Under 35 U.S.C. §120				
U.S. Applications		Status (Check One)		
Application Serial No.	U.S. Filing Date	Patented	Pending	Abandoned
PCT Applications Designating the U.S.				
Application No.	Filing Date	U.S. Serial No. Assigned		

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)**  
(35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Sewall P. Bronstein (Reg. No. 16,919)  
David G. Conlin (Reg. No. 27,026)  
George W. Neuner (Reg. No. 26,964)  
Ernest V. Linck (Reg. No. 29,822)

Linda M. Buckley (Reg. No. 31,003)  
Ronald L. Eisenstein (Reg. No. 30,628)  
Henry D. Pahl, Jr. (Reg. No. 20,438)  
Peter J. Manus (Reg. No. 26,766)

David S. Resnick (Reg. No. 34,235)  
Peter F. Cortless (Reg. No. 33,860)

<b>SEND CORRESPONDENCE TO:</b>  Dike, Bronstein, Roberts & Cushman, LLP 130 Water Street Boston, Massachusetts 02109	<b>DIRECT TELEPHONE CALLS TO:</b>  (617) 523-3400
--	---

2 0 1	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		Sugimoto	Osamu	
		Matsusaka-shi	Mie Japan	Japan
		648-2, Okuroda-cho	Matsusaka-shi	Mie 515-0063 Japan

2 0 2	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		Imai	Hajime	
		Taki-gun	Mie Japan	Japan
		1141-9, Oazagosana Taki-cho	Taki-gun	Mie 519-2157 Japan

2 0 3	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

2 0 4	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

2 0 6	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

2 0 7	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

2 0 8	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201 <i>Osamu Sugimoto</i>	Signature of Inventor 202 <i>Hajime Imai</i>
Date: November 22, 2000	Date: November 22, 2000